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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO
09/483,725	01/14/2000	Robert Louis Cupo	Cupo-19-3-5	8757
75	90 10/03/2003		EXAM	INER
Stephen J. Weed Esquire			CORRIELUS, JEAN B	
Synnestvedt & Lechner LLP 2600 Aramark Tower			ART UNIT	PAPER NUMBER
1101 Market Street [*] Philadelphia, PA 19107-2950			2631	
			DATE MAILED: 10/03/2003	s 4

Please find below and/or attached an Office communication concerning this application or proceeding.

	Application No.	Applicant(s)				
•						
Office Action Summany	09/483,725	CUPO ET AL.				
, Office Action Summary	Examiner	Art Unit				
The MAIL INC DATE of the commence of the comme	Jean B Corrielus	2631	_			
The MAILING DATE of this communication apperiod for Reply	pears on the cover shee	et willi life correspondence address				
A SHORTENED STATUTORY PERIOD FOR REPL THE MAILING DATE OF THIS COMMUNICATION. - Extensions of time may be available under the provisions of 37 CFR 1. after SIX (6) MONTHS from the mailing date of this communication. - If the period for reply specified above is less than thirty (30) days, a rep - If NO period for reply is specified above, the maximum statutory period - Failure to reply within the set or extended period for reply will, by statut - Any reply received by the Office later than three months after the mailin earmed patent term adjustment. See 37 CFR 1.704(b). Status	136(a). In no event, however, m by within the statutory minimum o will apply and will expire SIX (6) e, cause the application to becor	ay a reply be timely filed of thirty (30) days will be considered timely. MONTHS from the mailing date of this communication. ne ABANDONED (35 U.S.C. § 133).				
1) Responsive to communication(s) filed on 18.	August 2003 .					
	nis action is non-final.					
3) Since this application is in condition for allow						
closed in accordance with the practice under Disposition of Claims	Ex parte Quayle, 1935	5 C.D. 11, 453 O.G. 213.				
4)⊠ Claim(s) <u>1-19</u> is/are pending in the application.						
4a) Of the above claim(s) is/are withdra	wn from consideration					
5)⊠ Claim(s) <u>1 and 3</u> is/are allowed.						
6)⊠ Claim(s) <u>2,4-6,8-10,13-15,18 and 19</u> is/are rej	ected.					
7) Claim(s) <u>7, 11, 12, 16, 17,</u> is/are objected to.						
8) Claim(s) are subject to restriction and/o	or election requirement	•				
Application Papers	~~					
9) The specification is objected to by the Examine10) The drawing(s) filed on is/are: a) □ acce		by the Evaminer				
Applicant may not request that any objection to the						
11) The proposed drawing correction filed on						
If approved, corrected drawings are required in re						
12) The oath or declaration is objected to by the Examiner.						
Priority under 35 U.S.C. §§ 119 and 120						
13) Acknowledgment is made of a claim for foreig	n priority under 35 U.S	s.C. § 119(a)-(d) or (f).				
a)	•					
1. Certified copies of the priority documents have been received.						
2. Certified copies of the priority documents have been received in Application No						
Copies of the certified copies of the price application from the International But See the attached detailed Office action for a list.	ority documents have b ureau (PCT Rule 17.2(een received in this National Stage a)).				
14) ☐ Acknowledgment is made of a claim for domes						
 a) The translation of the foreign language pr 15) Acknowledgment is made of a claim for domes 						
Attachment(s)	•					
 Notice of References Cited (PTO-892) Notice of Draftsperson's Patent Drawing Review (PTO-948) Information Disclosure Statement(s) (PTO-1449) Paper No(s) 	5) Notic	view Summary (PTO-413) Paper No(s) ce of Informal Patent Application (PTO-152) r: .				

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DETAILED ACTION

Claim Objections

1. The indicated allowability of claims 5-6, 8-10, 13-15 18 and 19 is withdrawn in view of the newly discovered reference(s) to DERWENT PUBLICATION No. 1996-404860. Rejections based on the newly cited Publication follow.

Claim Rejections - 35 USC § 103

- 2. The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:
 - (a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negatived by the manner in which the invention was made.
- 3. Claims 2, 4, 5, 6, 8, 9, 10, 13-15, and 18-19 are rejected under 35 U.S.C. 103(a) as being unpatentable over applicant's admitted prior art fig. 5 in view of DERWENT PUBLICATION No. 1996-404860.

As per claims 5, 2, 4, 8, 13, and 18, applicant's fig. 5 teaches a method having the steps of encoding an analog signal by sampling digitizing and encoding segments of said analog signal and generating a plurality of variable length data frames corresponding to said segments, see applicant's disclosure page 1, lines 8-10; filling a fixed length master frame with said plurality of variable length frames a plurality of sync patterns, see fig. 5; modulating the fixed length master

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frame; and transmitting and receiving said modulated fixed frame over a channel see fig. 5 demodulating the modulated fixed length frame see line 14; the demodulated said fixed length master frame is inherently deformatted to remove the plurality of sync patterns shown in fig. 5 to derive said plurality of variable length data frames and the decoding the variable frames.

Applicant's admitted prior art further teaches the filling of any unused portion of the master frame by zeros rather than a random data pattern. However, as noted by applicant the use of random data is old and well established in the art see background of the invention page 3, lines 21-22. For instance Derwent Publication teaches such feature of the claim. Given that fact, it would have been obvious to one skill in the art at the time of the invention to modify fig. 5, by replacing the fixed data by random data in order to maximized system efficiency.

As per claims 6, 9, 14 as shown in fig 5 said fixed master frame is filled with said plurality of variable frames and with a sync signal preceding each variable frame.

As per claims 10, 15, and 19, the broadcasting receiver/transmitter is a digital audio broadcasting receiver/transmitter. See fig. 5.

Allowable Subject Matter

- 4. Claims 1 and 3 are allowed.
- 5. Claims 7, 11, 12, 16 and 17 are objected to as being dependent upon a rejected base claim, but would be allowable if rewritten in independent form including all of the limitations of the base claim and any intervening claims.

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6. Any response to this action should be mailed to:

Commissioner of Patents and Trademarks

Washington, D.C. 20231

or faxed to:

(703) 872-9314

(for informal or draft communications, please label "PROPOSED" or "DRAFT")

Hand-delivered responses should be brought to Crystal Park II, 2121 Crystal Drive, Arlington. VA., Sixth Floor (Receptionist).

7. Any inquiry concerning this communication or earlier communications from the examiner should be directed to Jean B. Corrielus whose telephone number is (703) 305-4023. The examiner can normally be reached on Monday-Thursday from 7:00 A.M. to 5:30 P.M.

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Any inquiry of a general nature or relating to the status of this application or proceeding should be directed to the Group receptionist whose telephone number is (703) 305-3800.

Primary Examiner

lu Lorribles Lean B. Corrielus

TC-2600 9-27-03